

Resource Summary Report

Generated by [kravitz2](#) on Aug 9, 2026

pEGFP-hsp27 wt FL

RRID:Addgene_17444

Type: Plasmid

Proper Citation

RRID:Addgene_17444

Plasmid Information

URL: <http://www.addgene.org/17444>

Proper Citation: RRID:Addgene_17444

Insert Name: small heat shock protein27

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:17597071](#)

Vector Backbone Description: Backbone Marker:BD Biosciences Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C2; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-hsp27 wt FL

Record Creation Time: 20220422T222008+0000

Record Last Update: 20260808T081247+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-hsp27 wt FL.

No alerts have been found for pEGFP-hsp27 wt FL.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Hung HF, et al. (2026) Centrosome linker protein CEP68 modulates cellular stress responses via nuclear condensate formation and HSP27 interaction. *iScience*, 29(7), 116491.

Perret M, et al. (2025) Intracellular Proteins Targeting with Bi-Functionalized Magnetic Nanoparticles Following their Endosomal Escape. *Small* (Weinheim an der Bergstrasse, Germany), 21(13), e2410454.

Gallagher ER, et al. (2024) Lysosomal damage triggers a p38 MAPK-dependent phosphorylation cascade to promote lysophagy via the small heat shock protein HSP27. *Current biology : CB*, 34(24), 5739.

Gallagher ER, et al. (2023) The selective autophagy adaptor p62/SQSTM1 forms phase condensates regulated by HSP27 that facilitate the clearance of damaged lysosomes via lysophagy. *Cell reports*, 42(2), 112037.

Gomes VM, et al. (2021) HSPB1 Is Essential for Inducing Resistance to Proteotoxic Stress in Beta-Cells. *Cells*, 10(9).

Balana AT, et al. (2021) O-GlcNAc modification of small heat shock proteins enhances their anti-amyloid chaperone activity. *Nature chemistry*, 13(5), 441.

Yuan F, et al. (2021) Hsa_circ_0072309 inhibits proliferation and invasion of glioblastoma. *Pathology, research and practice*, 222, 153433.

Trzeciakiewicz H, et al. (2020) An HDAC6-dependent surveillance mechanism suppresses tau-mediated neurodegeneration and cognitive decline. *Nature communications*, 11(1), 5522.

Rajesh Y, et al. (2019) Delineation of crosstalk between HSP27 and MMP-2/MMP-9: A synergistic therapeutic avenue for glioblastoma management. *Biochimica et biophysica acta. General subjects*, 1863(7), 1196.

Liu L, et al. (2018) Ac2-26 Induces IKK?? Degradation Through Chaperone-Mediated Autophagy Via HSPB1 in NCM-Treated Microglia. *Frontiers in molecular neuroscience*, 11, 76.

Wailemann RA, et al. (2018) Heat shock protein B1 is required for the prolactin-induced cytoprotective effects on pancreatic islets. *Molecular and cellular endocrinology*, 477, 39.

Murtaza M, et al. (2016) Rotenone Susceptibility Phenotype in Olfactory Derived Patient Cells as a Model of Idiopathic Parkinson's Disease. *PloS one*, 11(4), e0154544.

Aeberhard L, et al. (2015) The Proteome of the Isolated Chlamydia trachomatis Containing Vacuole Reveals a Complex Trafficking Platform Enriched for Retromer Components. *PLoS pathogens*, 11(6), e1004883.

Desai P, et al. (2015) Mixed-effects model of epithelial-mesenchymal transition reveals rewiring of signaling networks. *Cellular signalling*, 27(7), 1413.